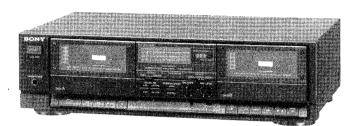
TC-W345

SERVICE MANUAL



US Model Canadian Model AEP Model E Model Australian Model

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY", the double-D symbol \(\square\) are trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similer	Mechanism	TC-W31 (US, Canadian, E model) TC-W170 (AEP model) NEW (Australian model)
Tape Transport	DECK-A	TCM-180VA-H3
Mechanism Type	DECK-B	TCM-180VB-H3

SPECIFICATIONS

Recording system

4-track 2-channel stereo

Fast-forward and rewind time
Approx. 120 sec. (with C-60 cassette)

Bias AC bias

Signal-to-noise ratio (NAB, at peak level)

Dolby NR switch Cassette	OFF	B-TYPE ON	C-TYPE ON
TYPE IV	58 dB	66 dB	73 dB
TYPE II	57 dB	65 dB	72 dB
TYPE I	55 dB	63 dB	70 dB

Total harmonic distortion

1.0% (with Sony METAL-ES cassette)

Frequency response (DOLBY NR OFF)

TYPE IV cassette	30 - 15,000 Hz (±3 dB) 30 - 13,000 Hz (0VU recording)
TYPE II cassette	30 – 14,000 Hz (±3 dB)
TYPE I cassette	30 – 13,000 Hz (±3 dB)

Cassette

Type IV: Sony Type IV (METAL) Type II: Sony Type II (HIGH) Type I: Sony Type I (NORMAL)

Wow and flutter ±0.16% W Peak (IEC)

0.11% WRMS (NAB) ±0.2% W Peak (DIN)

Inputs

Line inputs	Sensitivity	77.5 mV (-20 dB)
(phono jacks)	Input impedance	50 k ohms

Outputs

Line outputs (phono jacks)	Rated output level	0.44 V (-5 dB) at a load impedance of 47 k ohms
	Load impedance	Over 10 k ohms
Headphones (stereo phone jack)	Output level	0.3 mW at a load impedance of 32 ohms

General

Power requirements

Power consumption Dimensions Model for USA, Canada: 120 V AC, 60 Hz

Model for European countries: 220 - 230 V AC, 50/60 Hz Model for UK, Australia : 240V AC, 50/60Hz

Model for other countries: 120, 220, or 240 V AC ad

120, 220, or 240 V AC adjustable, 50/60 Hz

18 W

Approx. $430 \times 123 \times 280$ mm (w/h/d) $(17 \times 4^7/8 \times 11^1/8$ inches) including projecting

parts and controls Approx. 3.6 kg (7 lbs 15 oz)

Supplied accessories

Audio connecting cords (2)

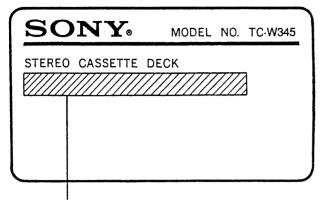
Design and specifications subject to change without notice.





MODEL IDENTIFICATION

– Specification Label —



US, Canadian model: AC 120V 60Hz 18W

AEP model: AC 220V~50/60Hz 18W

E model: AC 120, 220, 240V~50/60Hz 18W

Australian model: AC 240V~50/60Hz 18W

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6.	ELECTRICAL PARTS LIST18

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK / ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-LISHED BY SONY.

SAFETY CHECK-OUT

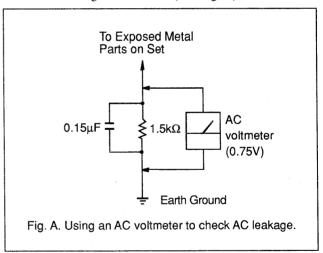
(US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- 1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



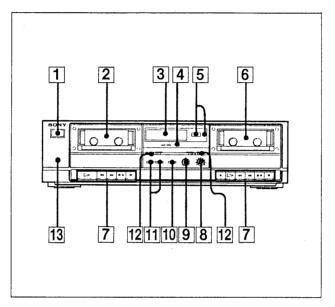
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE 🅂 SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM-POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

This section is extracted from instruction manual.

Identification of Front Panel Parts



- 1 POWER switch
- 2 Cassette holder (deck A)
- 3 PEAK LEVEL METER
- 4 DUBBING SPEED and RECORD indicators
- 5 TAPE COUNTER and RESET button
- 6 Cassette holder (deck B)
- 7 Tape operation buttons
 - REC (record) button (deck B only)

 - ◄ (rewinding) button
 - ▶► (fast-forward) button
 - (stop) and (eject) button
 - 11 PAUSE button
- 8 REC (recording) LEVEL control
- 9 BALANCE control
- 10 DUBBING SPEED button
 HIGH/NORMAL speed button
- 11 DOLBY NR (Dolby noise reduction) buttons
- 12 TAPE SELECT switches
- 13 HEADPHONES jack (stereo phone jack)

SECTION 2

MECHANICAL ADJUSTMENTS

PRECAUTION

 Clean the following parts with a denatured-alcoholmoistened swab:

record/playback head

pinch roller

erase head capstan rubber belts

idlers

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	30 — 70 g • cm (0.42 — 0.97 oz • inch)
FWD Back tension	CQ-102RC	1.5 — 7 g • cm (0.020 — 0.096 oz • inch)
FF, REW	CQ-201B	63 g • cm or more (0.87 oz • inch or more)

SECTION 3

ELECTRICAL ADJUSTMENTS

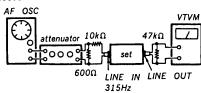
- Demagnetize the record/playback and erase head with a head demagnetizer.
- 2. Do not use a magnetized screwdriver for the adjustments.
- 3. After the adjustments, apply suitable locking compound to the parts adjusted.
- 4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
- The adjustments should be performed for both L-CH and R-CH.
- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch: OFF

TAPE select switch: TYPE 1 (NORMAL)

(DECK-B)

Mode: record



Standard Input Level

	LINE IN
source impedance	10kΩ
input level	0.25V (-10dB)

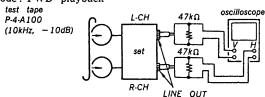
Standard Output Level

	LINE OUT
load impedance	47kΩ
output level	0.44V (-5dB)

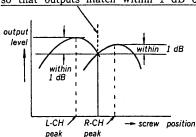
RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT DECK A/DECK B

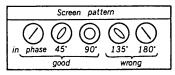
Procedure:

1. Mode: FWD playback



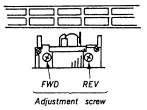
 Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.





3. After the adjustments, apply suitable locking compound to the parts adjusted.

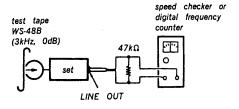
Adjustment Location:



TAPE SPEED ADJUSTMENT DECK A/DECK B

Procedure:

Mode: FWD playback



1. Connect pin to with the lead wire. (CNP505)

Measurement limit: high speed

Speed checker	Digital trequency conter
0 ± 0.3%	5960 ± 20Hz

Frequency difference between the beginning and the end of the tape should be within 1.5% (90Hz).

Adjustment location:

DECK-A side RV501 DECK-B side RV503

2. Remmove the wire in step 1. (CNP505)

Measurement limit: normal speed

Speed checker	Digital trequency conter
$0\pm0.3\%$	2,980 ± 10Hz

Frequency difference between the beginning and the end of the tape should be within 1.5% (45Hz).

Adjustment location:

DECK-A side RV502 DECK-B side RV504

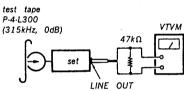
 If the specifications are not satisfied, repeat step 1 and 2.

PLAYBACK LEVEL ADJUSTMENT

DECK A/DECK B

Procedure:

Mode: FWD playback



Adjust,

DECK-A side RV101 (L-CH), RV201 (R-CH) DECK-B side RV102 (L-CH), RV202 (R-CH) so that the specifications are satisfied.

Measurement limit:

LINE OUT level: 0.44V (-5dB)

level difference between the channels: within 0.5dB

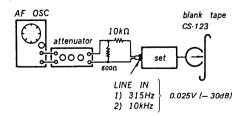
RECORD BIAS ADJUSTMENT DECK B

Setting:

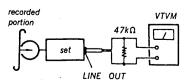
TAPE SELECT: TYPE-I (DECK-B)

Procedure:

1. Mode: record



2. Mode: playback



Playback the tape recorded in step 1. If the specification is not satisfied, adjust CT301 and repeat steps 1 and 2.

Measurement limit:

The LINE OUT level of 10kHz signal relative to that of 315Hz: -0.5dB to 0.5dB.

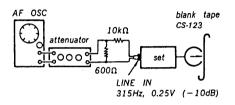
RECORD GAIN ADJUSTMENT DECK B

Setting:

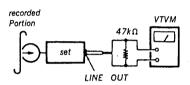
TAPE SELECT: TYPE-I (DECK-B)

Procedure:

1. Mode: record



2. Mode: playback

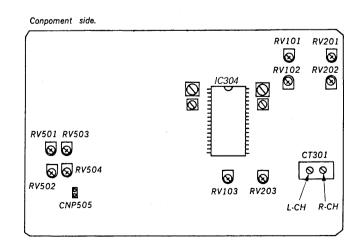


play back the recorded in step 1. If the specification is not satisfied, adjust RV103 (L-CH), RV203 (R-CH) and repeat steps $1\,$ and $2.\,$

Measurement limit:

LINE OUT level: 0.44V (-5dB)

Adjustment Location: Audio Board



SECTION 4 DIAGRAMS

Semiconductor Location

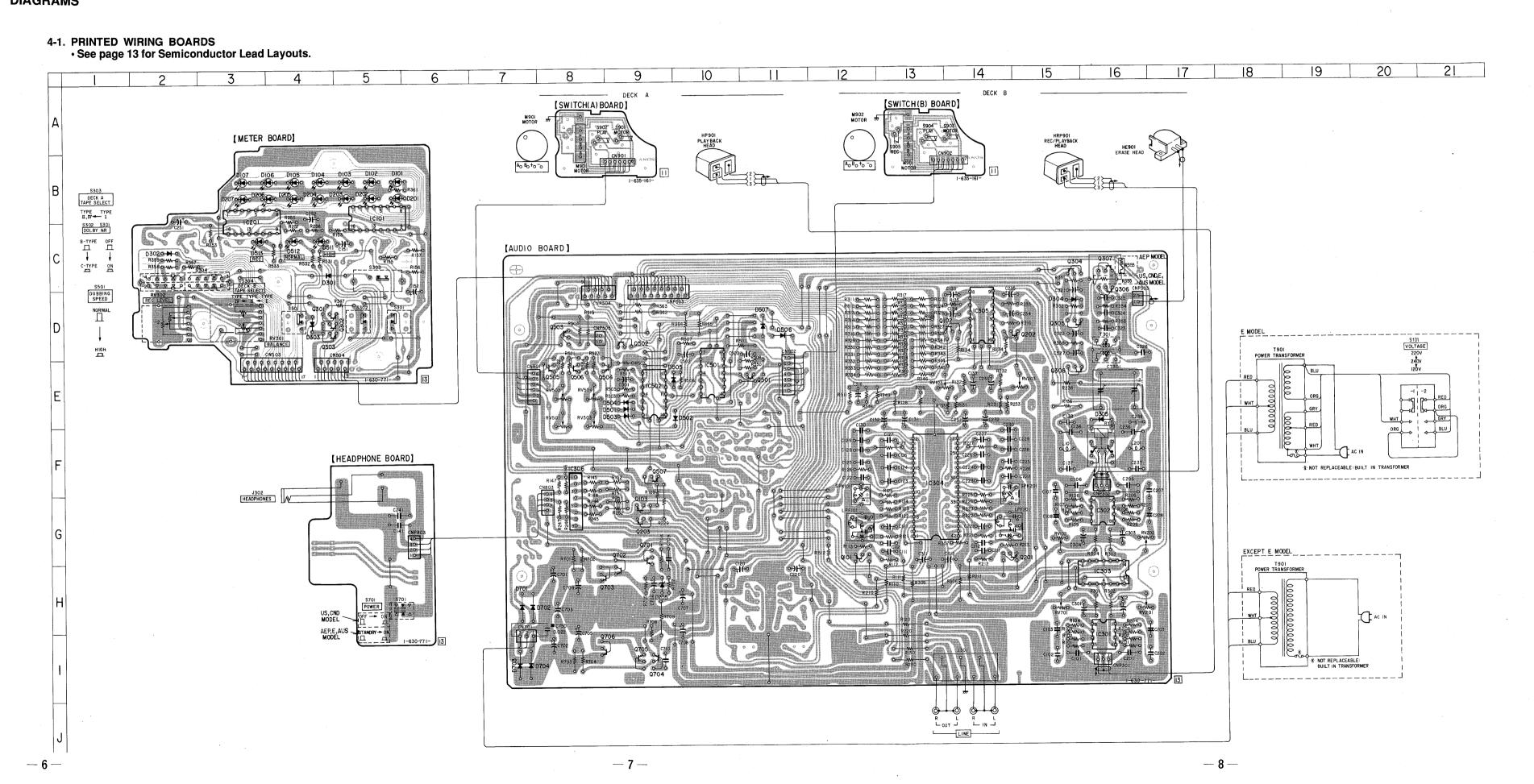
Ref. No.	Location	Ref. No.	Location
D101 D102 D103 D104 D105 D106 D107 D201 D202 D203 D204 D205 D206 D207 D301 D302 D303 D304 D305 D501 D502 D503 D504 D505 D506 D507 D511 D512 D513 D701 D702 D703 D704 D705	B-5 B-5 B-5 B-4 B-3 B-3 B-5 B-4 B-3 B-3 C-4 C-3 D-15 E-10 E-9 E-10 D-11 D-11 C-4 C-3 H-7 H-8 I-7 I-7 H-9	IC101 IC201 IC301 IC301 IC302 IC303 IC304 IC305 IC306 IC501 IC502 Q101 Q102 Q103 Q201 Q202 Q203 Q301 Q302 Q303 Q304 Q305 Q306 Q307 Q308 Q501 Q502 Q503 Q501 Q502 Q503 Q504 Q505 Q506 Q507 Q701 Q702 Q703 Q704 Q705 Q706	B-5 C-3 I-16 G-16 F-13 D-14 F-8 E-10 E-9 G-12 D-14 G-9 H-15 D-15 D-15 D-15 D-15 D-15 D-16 E-15 D-16 E-8 E-8 E-9 G-9 H-8 I-9 I-9 I-9 I-9 I-9 I-9 I-9 I-9 I-9 I-9

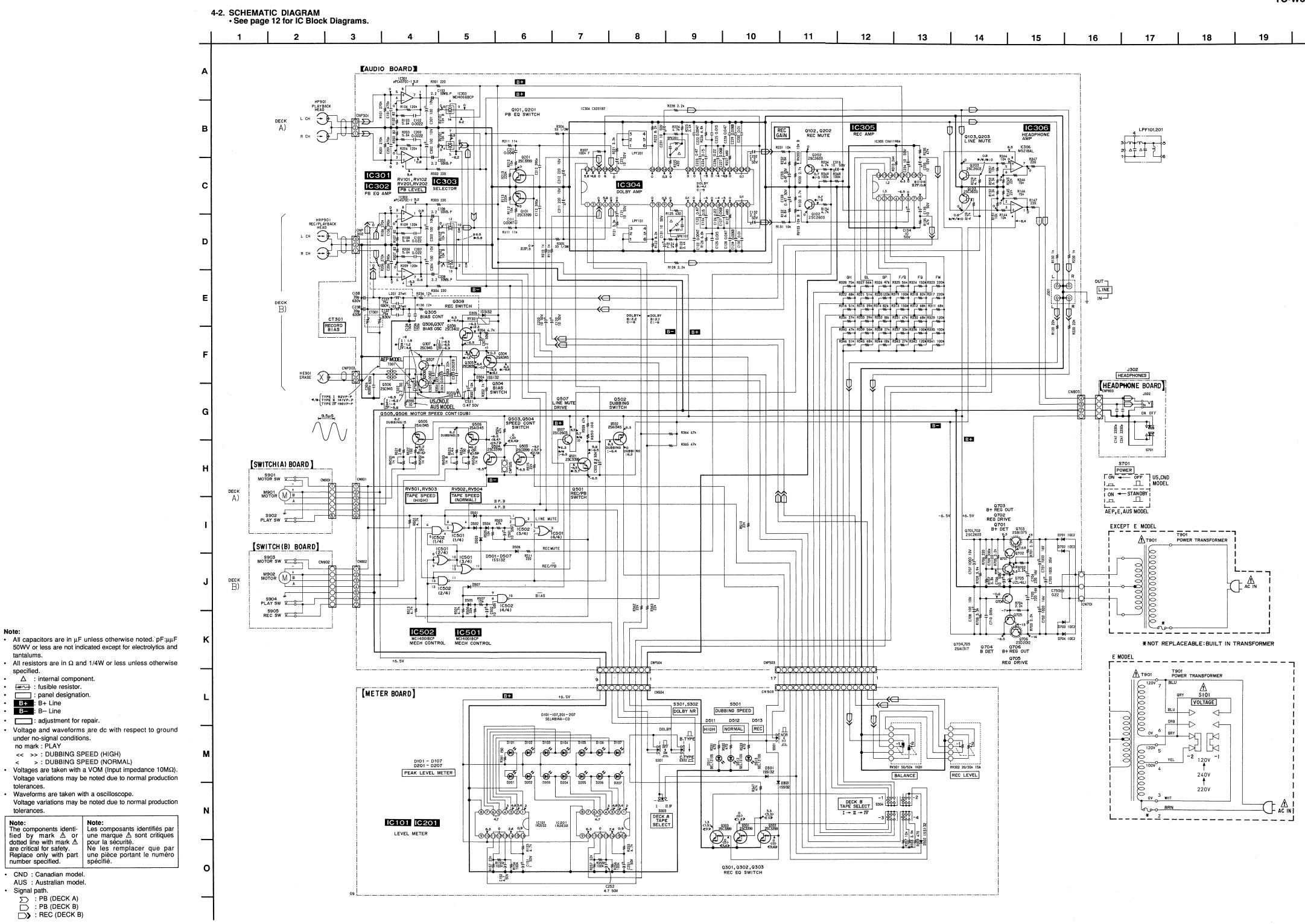
- c : parts extracted from the component side.

 □ : parts mounted on the conductor side.

 □ indicates side identified with part number.

 □ : internal component.
- Enternal component.
 Enternal component.
 Pattern from the side which enable seeing.
 CND: Canadian model.
 AUS: Australian model.





⇒ : PB (DECK A)
⇒ : PB (DECK B)
⇒ : REC (DECK B)

· CND : Canadian model.

AUS: Australian model.

specified.

△ : internal component. : fusible resistor.

_____: panel designation.

under no-signal conditions. no mark : PLAY

<< >> : DUBBING SPEED (HIGH) < > : DUBBING SPEED (NORMAL)

· Waveforms are taken with a oscilloscope.

8- : B- Line adjustment for repair.

tolerances.

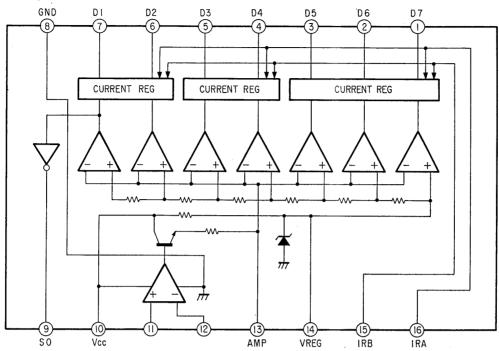
tolerances.

· Signal path.

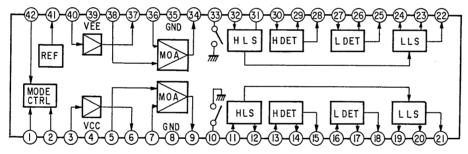
-9-

4-3. IC BLOCK DIAGRAMS

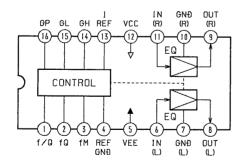
IC101,201 1R2E02



IC304 CX20187



IC305 CXA1198AP



4-4. SEMICONDUCTOR LEAD LAYOUTS

CX20187

DTA144ES DTC114ES DTC144ES 2SA1317-STU 2SC2603-EF

(Top view)

CXA1198AP 1R2E02



2SB1094-LK 2SD2012

M5218AL



ВС

2SC945-P

MC14001BCP MC14066BCP UPC4011BC



E C B

HZS6A1L 1SS202-1

UPC4570C-1





SEL1210S-C



SEL4814A-CD



10E2N



SECTION 5 EXPLODED VIEWS

NOTE:

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Color Indication of Appearance Parts Example:
 KNOB, BALANCE (WHITE) . . . (RED)
 ↑ ↑

Parts color Cabinet's color

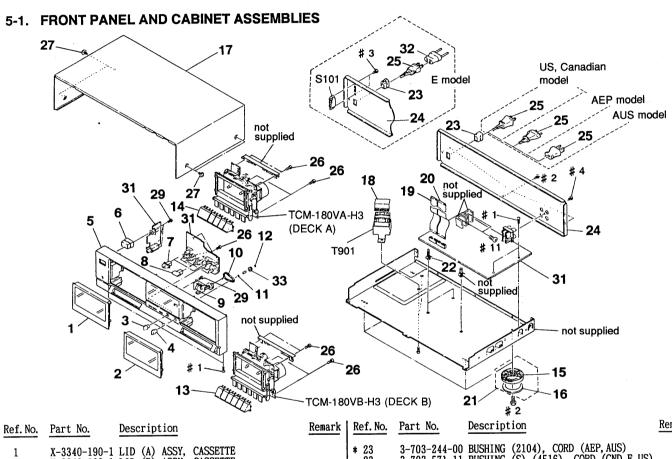
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- CND : Canadian model • AUS : Australian model

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

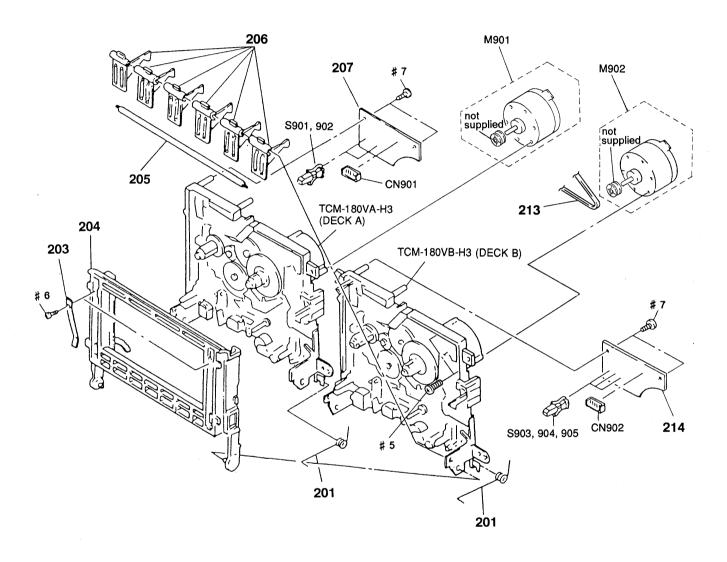
Les composants identifiés par une marque sont critiques pour la sécurité.

Ne les remplacer que par une piéce portant le numéro spécifié.

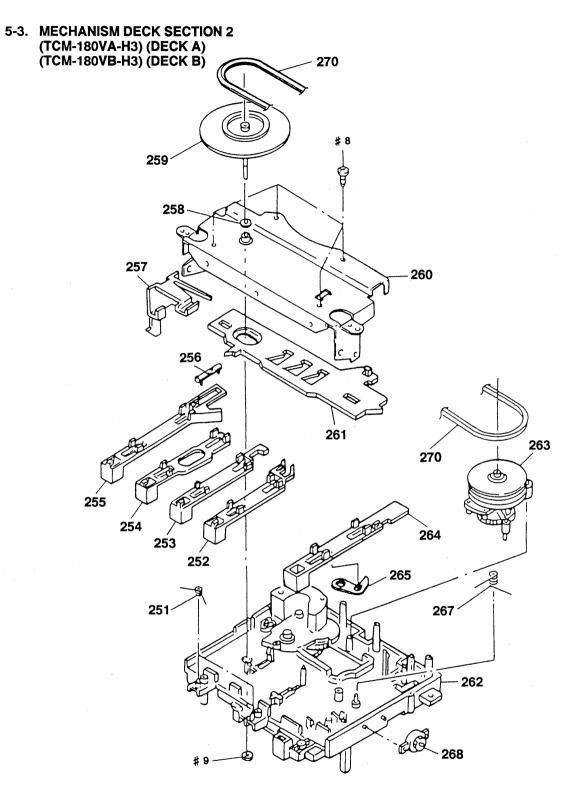


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1 2 3 4 5	X-3340-189-1 3-346-380-01 3-346-380-21	LID (A) ASSY, CASSETTE LID (B) ASSY, CASSETTE KNOB (VOL) KNOB (VOL) PANEL ASSY, FRONT (CND, US)		* 23 23 * 24 * 24 * 24	3-703-571-11 3-908-833-01 3-908-833-22	BUSHING (2104), CORD (AEP, AUS) BUSHING (S) (4516), CORD (CND, E, US) PANEL, BACK (CND, US) PANEL, BACK (AEP) PANEL, BACK (E)	
5 6 7 8 9	4-917-460-01 3-346-379-01 3-346-381-01	PANEL ASSY, FRONT (AEP, AUS, E) KNOB, POWER KNOB (SLIDE) BUTTON COUNTER, TAPE (MIDDLE TYPE)		* 24 ^25 ^25 ^25 ^25 ^25	1-551-188-XX 1-555-750-00 1-558-945-21	PANEL, BACK (AUS) CORD, POWER (E) CORD, POWER (AEP) CORD, POWER (POLAR SPT-1) (CND, US) CORD, POWER (AUS)	
10 11 12 13 14	3-701-437-11 3-558-708-11 3-349-043-11 3-349-042-11	WASHER, STOPPER BUTTON (BLOCK B) BUTTON (BLOCK A)		26 27 29 * 31 * 31	3-704-366-01 4-951-620-01 A-2006-264-A (AUS,	SCREW (2.6X10), +BVTP SCREW (CASE) (M3X8) SCREW (2.6X8), +BVTP AUDIO BOARD, COMPLETE CND, E, US) (Including HEADPHONE/METER AUDIO BOARD, COMPLETE (AEP) (Including HEADPHONE/METER	
15 15 16 * 17 * 18	3-318-688-51 4-923-836-21 4-943-088-31 3-327-855-01	CASE (AEP, AUS) COVER (TRANSFORMER)		/_32 * 33 /_S101 /_T901	3-549-452-00 1-570-307-11	ADAPTER, CONVERSION 2P (E) PULLEY, SHUT-OFF SELECTOR, POWER VOLTAGE (VOLTAGE) (E TRANSFORMER, POWER (E)	
* 19 * 20 21 21 * 22	1-574-725-11 X-4941-291-1 X-4941-292-1	WIRE, FLAT TYPE (9 CORE) WIRE, FLAT TYPE (17 CORE) FOOT ASSY (F58175S) (CND, US) FOOT ASSY (F58175S) (AEP, AUS, E) HOLDER, PC BOARD		<u>_</u> ↑Т901 <u>↑</u> Т901	1-449-683-11 1-450-610-11	I TRANSFORMER, POWER (CND, US) I TRANSFORMER, POWER (AEP, AUS)	

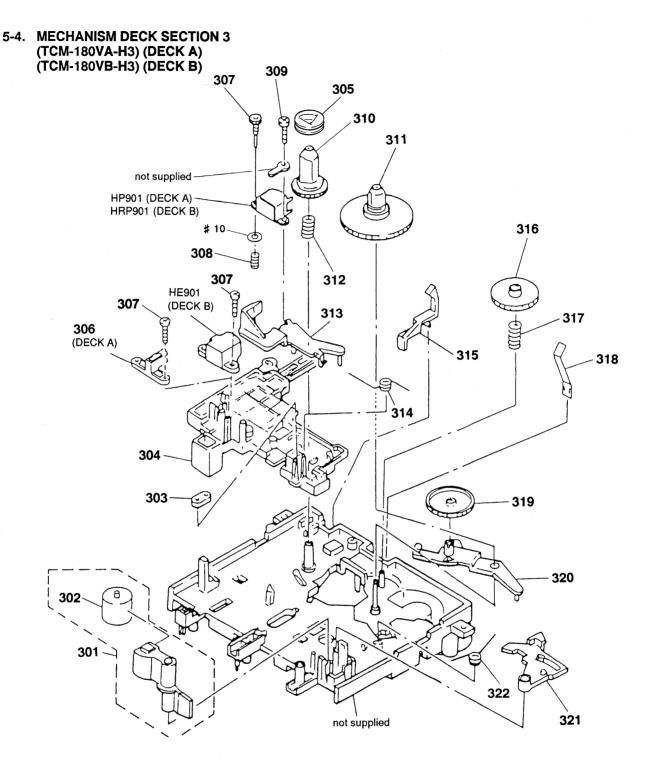
5-2. MECHANISM DECK SECTION 1 (TCM-180VA-H3) (DECK A) (TCM-180VB-H3) (DECK B)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201 203 204 205 206	3-358-209-01 3-358-266-02 3-358-242-01	SPRING (LOADING A), TORSION SPRING (CASSETTE HOLDER), LEAF HOLDER, CASSETTE SHAFT (BUTTON SHAFT) LEVER (BUTTON BASE A)		* CN902 M901 M902 S901 S902	X-3358-212-1 X-3358-212-1 1-571-736-11	PIN, CONNECTOR TP MOTOR (A) ASSY (DECK A) MOTOR (B) ASSY (DECK B) SWITCH, LEAF (MOTOR) SWITCH, LEAF (PLAY)	
207 213 214 * CN901	3-358-272-01 1-635-161-11	SWITCH (A) BOARD BELT (A2) SWITCH (B) BOARD PIN, CONNECTOR 6P		S903 S904 S905	1-571-736-11	SWITCH, LEAF (MOTOR) SWITCH, LEAF (PLAY) SWITCH, LEAF (REC)	



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251 252 253 254 255	3-358-258-01 3-358-257-01 3-358-256-01			* 261 262 263 264 * 265	X-3358-207-2 X-3358-202-1 3-358-259-01	SLIDER (LOCK PLATE) CHASSIS (A) ASSY LEVER (FR ARM) ASSY SLIDER (REC) LEVER (REC SAFETY)	
* 256 * 257 258 259 * 260	3-358-261-02 3-701-437-01 X-3358-205-1	LEVER (PAUSE LEVER) SLIDER (HOLDER LOCK) WASHER FLYWHEEL (A) ASSY BRACKET (A) ASSY		267 267 268 270	3-358-233-01	SPRING (LOCK), TORSION (DECK A) SPRING (REC-LOCK), TORSION (DECK B) DAMPER, SMALL BELT (A1)	



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301 302 * 303	3-578-143-11	LEVER (PINCH LEVER) ASSY PINCH ROLLER BUSHING (WIRE KIT RETAINER)		314 * 315		SPRING, TORSION LEVER (GB LEVER)	
* 304 * 305	3-358-265-01	SLIDER (HEAD PC BOARD A) PULLEY (COUNTER PULLEY)		* 316 317 318	3-358-207-01	GEAR (FF GEAR) SPRING (FF GEAR), COMPRESSION SPRING, LEAF	
* 306 307 308		GUIDE, TAPE SCREW (T), AZIMUTH SPRING (AZIMUTH), COMPRESSION		* 319 * 320	3-358-284-01	GEAR (TU GEAR) LEVER (TU ARM)	
309 310	3-358-288-01	SCREW (T), AZIMUTH GEAR (SUPPLY REEL)		* 321 322 HE901	3-358-243-01	LEVER (SHUT-OFF LEVER) SPRING (TU-SHUT), TORSION HEAD, MAGNETIC (ERASE) (DECK B)	
311 312 * 313	3-358-208-01	TABLE (T) ASSY, REEL SPRING (SUPPLY), COMPRESSION LEVER (TENSION DETECTION ARM)	!	HP901	1-543-319-11	HEAD, MAGNETIC (PB) (DECK A) HEAD, MAGNETIC (REC/PB) (DECK B)	

AUDIO

HEADPHONE

METER

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.

Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example: KNOB, BALANCE (WHITE) . . . (RED)

Parts color Cabinet's color

 Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

- SEMICONDUCTORS
 In each case, u: μ , for example:
 uA...: μA..., uPA...: μPA..., uPB...: μPB...,
 uPC...: μ PC..., uPD...: μ PD...
- RESISTORS
 All resistors are in ohms
 METAL: Metal-film resistor
 METAL OXIDE: Metal Oxide-film resistor
 F: nonflammable
- CAPACITORS uF : μF
- COILS uH : μH
- CND : Canadian model
 AUS : Australian model

			_								
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
*	A-2006-264-A	AUDIO BOARD, C				C207	1-136-157-00	FILM	0. 022uF	5%	50 V
						C208	1-124-767-00	ELECT	2. 2uF	20%	50V
*	A-2006-619-A	AUDIO BOARD, C	COMPLETE (A	EP)		C211	1-130-479-00		0. 0047uF	5%	50V
		********				C212	1-162-289-31		390PF	10%	50V
		(Includ	ling HEADPH	ONE/MET	ER BOARD)	C220	1-124-907-11		10uF	20%	50V
			•			C221	1-124-907-11		10uF	20%	50V
	7-685-646-79	SCREW +BVTP	3X8 TYPE	2 IT-3							
						C222	1-130-479-00	MYLAR	0.0047uF	5%	50V
		< CAPACITOR >				C223	1-136-173-00	FILM	0. 47uF	5%	50V
						C224	1-136-167-00	FILM	0. 15uF	5%	50V
C101	1-162-290-31		470PF	10%	50V	C225	1-136-155-00	FILM	0. 015uF	5%	50V
C102	1-136-157-00		0. 022uF	5%	50V	C226	1-136-169-00	FILM	0. 22uF	5%	50 V
C103	1-124-767-00		2. 2uF	20%	50V						
C106	1-162-289-31		390PF	10%	50V	C227	1-136-163-00	FILM	0.068uF	5%	50V
C107	1-136-157-00	FILM	0. 022uF	5%	50V	C228	1-136-161-00	FILM	0.047uF	5%	50 V
						C229	1-130-481-00	MYLAR	0.0068uF	5%	50V
C108	1-124-767-00	ELECT	2. 2uF	20%	50V	C230	1-136-153-00	FILM	0.01uF	5%	50V
C111	1-130-479-00	MYLAR	0.0047uF	5%	50V	C231	1-124-907-11	ELECT	10uF	20%	50V
C112	1-162-289-31	CERAMIC	390PF	10%	50V						
C120	1-124-907-11	ELECT	10uF	20%	50 V	C232	1-124-925-11	ELECT	2. 2uF	20%	100V
C121	1-124-907-11	ELECT	10uF	20%	50 V	C233	1-124-902-00		0. 47uF	20%	50V
						C234	1-124-907-11	ELECT	10uF	20%	50V
C122	1-130-479-00	MYLAR	0.0047uF	5%	50V	C235	1-124-907-11	ELECT	10uF	20%	50 Y
C123	1-136-173-00	FILM	0. 47uF	5%	50V	C236	1-162-284-31	CERAMIC	150PF	10%	50V
C124	1-136-167-00	FILM	0. 15uF	5%	50V						
C125	1-136-155-00	FILM	0. 015uF	5%	50V	C237	1-136-273-91	FILM	75PF	5%	630V
C126	1-136-169-00	FILM	0. 22uF	5%	50 V	C238	1-136-440-11	FILM	39PF	5%	630V
						C241	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C127	1-136-163-00	FILM	0.068uF	5%	50V	C251	1-126-301-11	ELECT	luF	20%	50V
C128	1-136-161-00	FILM	0. 047uF	5%	50V	C252	1-126-163-11		4. 7uF	20%	50V
C129	1-130-481-00	MYLAR	0.0068uF	5%	50V						
C130	1-136-153-00	FILM	0. 01uF	5%	50V	C301	1-124-443-00	ELECT	100uF	20%	10V
C131	1-124-907-11	ELECT	10uF	20%	50V	C302	1-124-443-00		100uF	20%	10V
						C303	1-124-443-00		100uF	20%	10V
C132	1-124-925-11	ELECT	2. 2uF	20%	100V	C304	1-124-443-00		100uF	20%	10V
C133	1-124-902-00	ELECT	0. 47uF	20%	50V	C311	1-126-176-11		220uF	20%	10V
C134	1-124-907-11	ELECT	10uF	20%	50V	,,,,,				2070	101
C135	1-124-907-11	ELECT	10uF	20%	50V	C312	1-126-176-11	ELECT	220uF	20%	10V
C136	1-162-284-31	CERAMIC	150PF	10%	50V	C316	1-124-907-11		10uF	20%	50V
						C321	1-124-902-00		0. 47uF	20%	50V
C137	1-136-273-91	FILM	75PF	5%	630V	C322	1-124-925-11		2. 2uF	20%	100V
C138	1-136-440-11	FILM	39PF	5%	630V	C323	1-130-478-00		0.0039uF		50V
C141	1-161-375-00	CERAMIC	0.0022uF	20%	50V					0.0	001
C151	1-126-301-11		luF	20%	50V	C324	1-130-478-00	MYLAR	0.0039uF	5%	50V
C152	1-126-163-11		4. 7uF	20%	50V	C325	1-130-482-00		0. 0082uF	5%	50V
						C326	1-136-562-11		0. 0082uF	5%	630V
C201	1-162-290-31	CERAMIC	470PF	10%	50V	C327	1-124-925-11		2. 2uF	20%	100V
C202	1-136-157-00	FILM	0. 022uF	5%	50V	C501	1-124-907-11		10uF	20%	50V
C203	1-124-767-00	ELECT	2. 2uF	20%	50V					2070	
C206	1-162-289-31	CERAMIC	390PF	10%	50V	C502	1-124-907-11	ELECT	10uF	20%	50V
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AUDIO HEADPHONE METER

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description		Remark
C503 C701 C702 C703	1-124-925-11 1-124-360-00 1-124-360-00 1-126-105-11	ELECT ELECT	2. 2uF 1000uF 1000uF 1000uF	20% 20% 20% 20%	100V 16V 16V 35V	D504 D505 D506	8-719-107-94	DIODE 1SS20 DIODE 1SS20 DIODE 1SS20	2-1	
C704 C705 C706 C707 C708	1-124-120-11 1-124-120-11 1-124-907-11 1-124-473-11 1-124-443-00	ELECT ELECT ELECT	220uF 220uF 10uF 1000uF 100uF	20% 20% 20% 20% 20%	25V 25V 50V 10V	D507 D511 D512 D513 D701	8-719-302-46 8-719-302-46 8-719-302-46	DIODE 1SS20 LED SEL1210 LED SEL1210 LED SEL1210 DIODE 10E2N	S-C (HIGH) S-C (NORMAL) S-C (REC)	
C709 C710 C750	1-162-288-31 1-162-288-31 1-136-157-00	CERAMIC	330PF 330PF 0. 022uF	10% 10% 5%	50V 50V 50V (AEP)	D702 D703 D704 D705	8-719-200-77 8-719-200-77	DIODE 10E2N DIODE 10E2N DIODE 10E2N DIODE HZS6A		
		< CONNECTOR >						< IC >		
CN504 * CNP301 * CNP302	1-568-441-11 1-564-705-11 1-564-705-11	SOCKET, CONNECTOR PIN, CONNECTOR PIN, CONNECTOR PIN, CONNECTOR PIN, CONNECTOR	TOR 9P (SMALL TY (SMALL TY	PE) 3P		IC201 IC301 IC302	8-759-912-79 8-759-912-79 8-759-111-44 8-759-111-44 8-759-000-49	IC IR2E02 IC UPC4570 IC UPC4570	C-1	
CNP504 * CNP505	1-568-442-11 1-564-704-11	SOCKET, CONNECT SOCKET, CONNECT PIN, CONNECTOR PIN, CONNECTOR	TOR 9P (SMALL TY	PE) 2P		IC305 IC306 IC501	8-752-018-70 8-752-060-64 8-759-634-50 8-759-040-01 8-759-140-11	IC CXA1198 IC M5218AL IC MC14001	AP BCP	
		< TRIMMER >						< JACK >		
CT301	1-141-225-00	CAP, TUNING, T	RIMAR			J301	1-565-258-11	JACK. PIN 4P	(LINE)	
		< DIODE >				J302			TYPE (HEADPHONES)	
D101 D102 D103 D104 D105	8-719-312-65 8-719-312-65 8-719-312-65	LED SEL4814A LED SEL4814A LED SEL4814A LED SEL4814A LED SEL4814A	CD CD CD				1-410-780-11 1-410-780-11		27mH 27mH	
D106 D107 D201 D202 D203	8-719-312-65 8-719-312-65 8-719-312-65	LED SEL4814A-1 LED SEL4814A-1 LED SEL4814A-1 LED SEL4814A-1 LED SEL4814A-1	CD CD CD				1-236-087-11 1-236-087-11		PASS	
D204 D205 D206 D207 D301	8-719-312-65 8-719-312-65 8-719-312-65	LED SEL4814A- LED SEL4814A- LED SEL4814A- LED SEL4814A- DIODE 1SS202-	CD CD CD			Q101 Q102 Q103 Q201 Q202	8-729-900-89 8-729-620-05 8-729-620-05 8-729-900-89 8-729-620-05	TRANSISTOR TRANSISTOR TRANSISTOR	DTC144ES 2SC2603-EF 2SC2603-EF DTC144ES 2SC2603-EF	
D302 D303 D304 D305 D501	8-719-107-94 8-719-107-94 8-719-107-94	DIODE 1SS202- DIODE 1SS202- DIODE 1SS202- DIODE 1SS202- DIODE 1SS202-	1 1 1			Q203 Q301 Q302 Q303 Q304	8-729-620-05 8-729-900-89 8-729-900-89 8-729-900-89 8-729-900-65	TRANSISTOR TRANSISTOR TRANSISTOR	2SC2603-EF DTC144ES DTC144ES DTC144ES DTA144ES	
D502 D503		DIODE 1SS202- DIODE 1SS202-				Q305 Q306	8-729-620-05 8-729-194-57		2SC2603-EF 2SC945-P	

AUDIO HEADPHONE METER

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
Q307	8-729-194-57	TRANSISTOR	2SC945-I)			R151	1-249-429-11	CARBON	10K	5%	1/4W	
Q308	8-729-900-80		DTC114ES				R152	1-249-423-11		3. 3K		1/4₩	F
Q501	8-729-900-89		DTC144ES					1 210 120 11	VIII.DOI!	0. 0	070	1/ 111	•
4				•			R153	1-247-840-00	CARBON	2. 4K	5%	1/4W	
Q502	8-729-900-65	TRANSISTOR	DTA144ES	3			R155	1-249-441-11		100K		1/4₩	
Q503	8-729-900-89		DTC144ES				R156	1-249-441-11		100K		1/4₩	
Q504	8-729-900-89		DTC144ES	3			R157	1-249-433-11		22K		1/4W	
Q505	8-729-900-65		DTA144ES				R201	1-247-889-00		270K		1/4W	
Q506	8-729-900-65	TRANSISTOR	DTA144ES	3								_,	
							R202	1-249-404-00	CARBON	82	5%	1/4W	
Q507	8-729-620-05	TRANSISTOR	2SC2603-	-EF			R203	1-249-426-11	CARBON	5. 6K		1/4W	
Q701	8-729-620-05	TRANSISTOR	2SC2603-	-EF			R204	1-247-881-00	CARBON	120K		1/4₩	
Q702	8-729-620-05	TRANSISTOR	2SC2603-	-EF			R206	1-247-889-00	CARBON	270K	5%	1/4₩	
Q703	8-729-141-83	TRANSISTOR	2SB1094-	-LK			R207	1-249-404-00	CARBON	82		1/4₩	
Q704	8-729-821-04	TRANSISTOR	2SA1317-	-STU									
							R208	1-249-426-11	CARBON	5.6K	5%	1/4W	
Q705	8-729-821-04	TRANSISTOR	2SA1317-	-STU			R209	1-247-881-00	CARBON	120K	5%	1/4W	
Q706	8-729-209-15	TRANSISTOR	2SD2012				R210	1-249-417-11	CARBON	1K	5%	1/4W	F
							R211	1-247-856-00	CARBON	11K	5%	1/4W	
		< RESISTOR >					R212	1-249-431-11	CARBON	15K	5%	1/4W	
R101	1-247-889-00		270K		1/4W		R213	1-247-887-00		220K		1/4W	
R102	1-249-404-00		82	5%	1/4W		R220	1-249-433-11		22K	5%	1/4W	
R103	1-249-426-11		5.6K		1/4W		R221	1-249-423-11		3. 3K		1/4W	
R104	1-247-881-00		120K		1/4W		R222	1-249-428-11		8. 2K	5%	1/4W	F
R106	1-247-889-00	CARBON	270K	5%	1/4W		R223	1-247-840-00	CARBON	2. 4K	5%	1/4₩	
D107	1 040 404 00	CARRON	0.0	F0/	1 / 450		D004	1 040 405 11	CARRON	4 777	50 /	1 / 177	
R107	1-249-404-00		82	5%	1/4W		R224	1-249-425-11		4. 7K		1/4W	F
R108	1-249-426-11		5. 6K		1/4W		R225	1-247-822-11		430	5 %	1/4W	ъ .
R109 R110	1-247-881-00 1-249-417-11		120K 1K	5% 5%	1/4W	ъ.	R226	1-249-427-11		6. 8K		1/4₩	
R111	1-249-417-11		11K	5%	1/4W	г	R227	1-249-415-11		680	5%	1/4W	
WIII	1-247-050-00	CARDON	111	∂ <i>1</i> 6	1/4W		R228	1-249-421-11	CARBON	2. 2K	576	1/4W	r
R112	1-249-431-11	CARRON	15K	5%	1/4W		R229	1-249-425-11	CARRON	4.7K	E94	1/4W	D.
R113	1-247-887-00		220K		1/4W		R230	1-249-417-11		1K	5%	1/4W	
R120	1-249-433-11		22K	5%	1/4W		R231	1-249-429-11		10K	5%	1/4W	1
R121	1-249-423-11		3. 3K		1/4W	F	R232	1-249-427-11		6. 8K		1/4W	F
R122	1-249-428-11		8. 2K		1/4₩		R233	1-249-422-11		2. 7K		1/4W	
					•							-,	-
R123	1-247-840-00	CARBON	2.4K	5%	1/4W		R234	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R124	1-249-425-11	CARBON	4.7K	5%	1/4W	F	R235	1-249-437-11	CARBON	47K	5%	1/4W	
R125	1-247-822-11	CARBON	430	5%	1/4W		R236	1-249-430-11	CARBON	12K	5%	1/4W	
R126	1-249-427-11		6.8K	5%	1/4W	F	R244	1-249-429-11	CARBON	10K	5%	1/4W	
R127	1-249-415-11	CARBON	680	5%	1/4W	F	R245	1-249-433-11	CARBON	22K	5%	1/4W	
R128	1-249-421-11		2. 2K		1/4W		R246	1-249-431-11		15K	5%	1/4W	
R129	1-249-425-11		4.7K		1/4W		R247	1-249-409-11		220	5%	1/4W	F
R130	1-249-417-11		1K	5%	1/4W	F	R251	1-249-429-11		10K	5%	1/4W	
R131	1-249-429-11			5%	1/4W	_	R252	1-249-423-11		3. 3K		1/4W	F
R132	1-249-427-11	CARBON	6. 8K	5%	1/4W	F	R253	1-247-840-00	CARBON	2. 4K	5%	1/4W	
D122	1_2/0_/22_11	CAPRON	9 71	E9/	1 / / W	p	Doce	1 240 441 11	CADDON	1007	ro/	1 / AW	
R133 R134	1-249-422-11 1-249-425-11		2.7K		1/4W 1/4W		R255	1-249-441-11		100K		1/4W	
R135	1-249-425-11		4.7K 47K	5%	1/4W	Г	R256 R257	1-249-441-11		100K		1/4W	
R136	1-249-437-11		12K	5%	1/4W		R301	1-249-433-11 1-249-409-11		22K 220	5% 5%	1/4W	D
R144	1-249-430-11		12K 10K	5%	1/4W		R302	1-249-409-11		220	5% 5%	1/4W	
1111	1 440 440-11	CAILDON	TOV	J/0	1/47		11302	1-445-405-11	CARDON	440	5%	1/4W	Г
R145	1-249-433-11	CARBON	22K	5%	1/4W		R303	1-249-409-11	CARBON	220	5%	1/4W	F
R146	1-249-431-11		15K	5%	1/4W		R304	1-249-409-11		220	5%	1/4W	
R147	1-249-409-11		220	5%	1/4₩	F	R305	1-247-733-11		33	5%	1/2W	•
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AUDIO HEADPHONE METER

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Descripti	on			Remark
Danc	1 047 700 11	CADDON	00	-0 /	1 /077		2055	1 040 400 11	O L D D O L	107	=0/		
R306 R307	1-247-733-11		33	5%	1/2W		R357	1-249-429-11		10K	5%	1/4W	
1,061	1-215-469-00	METAL	100K	176	1/6W		R358	1-249-424-11		3. 9K		1/4W	
R310	1-247-864-11	CARRON	24K	5%	1/4W		R359	1-249-413-11	CARBON	470	5%	1/4₩	r
R311	1-249-439-11		68K	5%	1/4W		R361	1-247-811-31	CARRON	150	5%	1/4W	
R312	1-249-439-11		68K	5%	1/4W		R362	1-249-433-11		22K	5%	1/4W	
R313	1-247-883-00		150K		1/4W		R363	1-249-433-11		22K	5%	1/4W	
R314	1-249-440-11		82K	5%	1/4W		R364	1-249-437-11		47K	5%	1/4W	
					•		R365	1-249-437-11		47K	5%	1/4W	
R315	1-249-436-11	CARBON	39K	5%	1/4W							·	
R316	1-247-872-11		51K	5%	1/4W		R501	1-249-425-11		4.7K	5%	1/4W	F
R317	1-247-887-00		220K		1/4W		R502	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R318	1-249-440-11		82K	5%	1/4₩		R503	1-249-437-11		47K	5%	1/4W	
R319	1-249-441-11	CARBON	100K	5%	1/4W		R504	1-249-437-11		47K	5%	1/4W	
2000							R505	1-249-429-11	CARBON	10K	5%	1/4W	
R320	1-247-881-00		120K		1/4W								
R321	1-247-872-11		51K	5%	1/4W		R506	1-249-435-11		33K	5%	1/4W	
R322	1-249-439-11		68K	5%	1/4W		R507	1-249-431-11		15K	5%	1/4W	
R323 R324	1-247-887-00		220K		1/4W		R508	1-249-437-11		47K	5%	1/4W	n
N324	1-247-883-00	CARDON	150K	5%	1/4₩		R511 R512	1-249-409-11 1-249-433-11		220	5%	1/4W	r
R325	1-249-438-11	CARRON	56K	5%	1/4W		K512	1-249-433-11	CARDON	22K	5%	1/4W	
R326	1-249-437-11		47K	5%	1/4W		R513	1-249-425-11	CARRON	4.7K	5%	1/4W	F
R327	1-249-438-11		56K	5%	1/4W		R515	1-249-433-11		22K	5%	1/4W	r
R328	1-247-876-11		75K	5%	1/4W		R521	1-247-840-00		2. 4K		1/4W	
R329	1-247-881-00		120K		1/4W		R522	1-247-811-31		150	5%	1/4W	
					-,		R523	1-247-840-00		2. 4K		1/4W	
R330	1-249-439-11	CARBON	68K	5%	1/4W							_, -,	
R331	1-249-437-11	CARBON	47K	5%	1/4W		R524	1-247-811-31	CARBON	150	5%	1/4W	
R332	1-249-432-11	CARBON	18K	5%	1/4₩		R531	1-249-413-11	CARBON	470	5%	1/4W	F
R333	1-249-436-11		39K	5%	1/4W		R532	1-249-413-11	CARBON	470	5%	1/4W	F
R334	1-249-434-11	CARBON	27K	5%	1/4W		R533	1-249-413-11		470	5%	1/4W	F
2005							R550	1-247-807-31	CARBON	100	5%	1/4W	
R335	1-249-441-11		100K	5%	1/4₩								
R336	1-249-441-11			5%	1/4W		R701	1-249-421-11		2. 2K		1/4W	
R337	1-249-435-11		33K	5%	1/4W		R702	1-249-421-11		2. 2K		1/4W	
R338 R339	1-249-434-11 1-249-438-11		27K 56K	5% 5%	1/4W 1/4W		R703	1-249-421-11 1-249-421-11		2. 2K		1/4W	
เรออ	1-245-456-11	CANDON	SOV	3/0	1/41		R704 R705	1-249-421-11		2. 2K 2. 2K		1/4W 1/4W	
R340	1-249-437-11	CARBON	47K	5%	1/4W		KIOS	1-245-421-11	CAILDON	2. ZR	3/0	1/41	Г
R341	1-249-441-11		100K		1/4W		R706	1-249-409-11	CARBON	220	5%	1/4W	F
R342	1-247-881-00		120K		1/4W		R707	1-249-423-11		3. 3K		1/4W	
R343	1-249-434-11	CARBON	27K	5%	1/4W			1-249-423-11		3. 3K		1/4W	
R344	1-249-432-11		18K	5%	1/4W		R709	1-249-424-11		3. 9K		1/4W	
R345	1-249-439-11		68K	5%	1/4W				< VARIABLE	E RESISTOR	>		
R346	1-247-872-11		51K	5%	1/4W								
R347	1-249-437-11		47K	5%	1/4W			1-228-994-00					
R348	1-249-441-11		100K		1/4W			1-228-994-00					
R349	1-249-441-11	CARBON	100K	5%	1/4W			1-228-994-00					
D2E1	124042011	CADDON	1017	F0/	1 / 400			1-228-994-00					
R351 R352	1-249-429-11 1-249-417-11		10K 1K	5% 5%	1/4₩ 1/4₩	₋	KVZUZ	1-228-994-00	kes, Adj,	METAL TUK			
R353	1-249-417-11		22K	5% 5%	1/4W 1/4W	r.	cucad	1_222_004_00	DEC 1D1	METAL 10V			
R354	1-249-433-11		22K	5% 5%	1/4W			1-228-994-00 1-238-683-11			/E0V	(DAT ANO	D)
<u></u> 1€8355	1-219-153-11		10	5%		F (AEP)		1-238-534-11					
	100 11		10		1/ 111	. ()		1-228-990-00			LUIL	(NEC LE	T 1212/
R355	1-249-393-11	CARBON	10	5%	1/4₩	_F		1-228-990-00					
					(US, CND			000 00	,,				
R356	1-249-425-11	CARBON	4.7K		1/4W		RV503	1-228-990-00	RES, ADJ,	METAL 1K			
						•							

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.

Ne les remplacer que par une piéce portant le numéro spécifié.

AUDIO HEADPHONE METER SWITCH (A) SWITCH (B)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
RV504	1-228-990-00	RES, ADJ, METAL 1K		S905	1-571-736-11	SWITCH, LEAF (REC)	
		< RELAY >		******	*******	************	*****
RY301	1-515-614-11					MISCELLANEOUS *************	
\$302 \$303 \$304 \$501 \$701	1-571-510-11 1-570-974-11 1-571-628-11 1-571-510-11 1-570-393-21 1-235-186-00	<pre> < SWITCH, PUSH (1 KEY) (DOLBY NR) SWITCH, PUSH (1 KEY) (DOLBY NR) SWITCH, SLIDE (DECK A TAPE SELECT SWITCH, SLIDE (DECK B TAPE SELECT SWITCH, PUSH (1 KEY) (DUBBING SPEE SWITCH, PUSH (1 KEY) (POWER) < ENCAPSULATED COMPONENT > ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT </pre>)	* CN902	1-574-727-11 1-574-725-11 1-551-188-XX 1-555-750-00 1-558-945-21 1-696-966-21 1-569-007-11 1-541-753-11 1-564-499-11	COUNTER, TAPE (MIDDLE TYPE) WIRE, FLAT TYPE (9 CORE) WIRE, FLAT TYPE (17 CORE) CORD, POWER (E) CORD, POWER (AEP) CORD, POWER (AUS) ADAPTER, CONVERSION 2P (E) MOTOR, DC (EG-530KD-2B) PIN, CONNECTOR 6P PIN, CONNECTOR 7P HEAD, MAGNETIC (ERASE) (DECK B)	
T301	1-433-303-11	< TRANSFORMER > TRANSFORMER, BIAS OSCILLATION		HP901 HRP901	1-543-319-11 1-543-319-11	HEAD, MAGNETIC (ERASE) (DECK B) HEAD, MAGNETIC (PB) (DECK A) HEAD, MAGNETIC (REC/PB) (DECK B) MOTOR (A) ASSY (DECK A)	
******	******	********	*****			MOTOR (B) ASSY (DECK B)	
*	1-635-161-11	SWITCH (A) BOARD ************************************		∆S101 S901 S902 S903	1-571-736-11 1-571-736-11	SELECTOR, POWER VOLTAGE (VOLTAGE) SWITCH, LEAF (MOTOR) SWITCH, LEAF (PLAY) SWITCH, LEAF (MOTOR)	(E)
		< CONNECTOR >				SWITCH, LEAF (PLAY)	
* CN901	1-564-499-11	PIN, CONNECTOR 6P < MOTOR >		S905 <u>↑</u> T901 <u>↑</u> T901	1-571-736-11 1-449-682-11 1-449-683-11	SWITCH, LEAF (REC) TRANSFORMER, POWER (E) TRANSFORMER, POWER (CND, US)	
M901	X-3358-212-1	MOTOR (A) ASSY				TRANSFORMER, POWER (AEP, AUS)	
		< SWITCH >		******		**************************************	******
S901 S902		SWITCH, LEAF (MOTOR) SWITCH, LEAF (PLAY)			******	******	
******	******	************	******	*	3-376-136-01	CORD, CONNECTION (AUDIO) (158cm) CUSHION (HALF) MANUAL. INSTRUCTION	
*	1-635-161-11	SWITCH (B) BOARD ************************************			(ENGL 3-757-880-21	MANUAL, INSTRUCTION ISH, FRENCH, SPANISH, PORTUGUESE) (AEI MANUAL, INSTRUCTION (ENGLISH) (AUS MANUAL, INSTRUCTION	
		< CONNECTOR >			0 101 000 11	(GERMAN, DUTCH, SWEDISH, ITALIAN) (AI	EP)
* CN902	1-564-500-11	PIN, CONNECTOR 7P		*		MANUAL, INSTRUCTION (CHINESE) (E) INDIVIDUAL CARTON (AUS, CND, E, US)	
		< MOTOR >		* *	3-907-886-71 3-912-048-01	INDIVIDUAL CARTON (AEP) CUSHION	
M902	X-3358-212-1	MOTOR (B) ASSY < SWITCH >		******	*******	*********	******
S903 S904		SWITCH, LEAF (MOTOR) SWITCH, LEAF (PLAY)		The	11 10	d by mode I og composente identifiée	

The components identified by mark \triangle or dotted line with mark \triangle are marque \triangle sont critiques pour la

critical for safety.
Replace only with part number specified.

sécurité. Ne les remplacer que par une piéce

portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark

#1 #2 #3 #4 #5	7-682-548-09 7-685-534-19 7-621-849-00	SCREW +BVTT 3X8 (S) SCREW +BVTT 3X8 (S) SCREW +BTP 2.6X8 TYPE2 N-S (E) SCREW, TAPPING SCREW +B 2.6X5	
#6 #7 #8 #9 #10	7-685-533-19 7-685-133-19	SCREW +P 2X5 TYPE2 NON-SLIT SCREW +BTP 2.6X6 TYPE2 N-S SCREW +P 2.6X6 TYPE2 RING, RETAINING, CAPSTAN W 2, SMALL	
#11	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

TC-W345

SONY. SERVICE MANUAL

US Model Canadian Model AEP Model E Model Australian Model

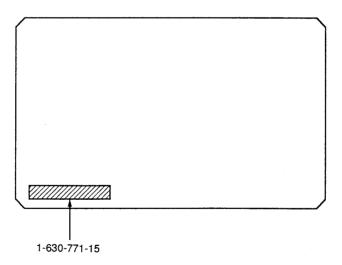
SUPPLEMENT-1

File this Supplement with the Service Manual.

Subject : Schematic Diagram change Block Diagram

New type identification:

[AUDIO BOARD] — Component side —



Quality Engineering Dept.



: indicates changed portion

CHANGE PARTS LIST

Page	Ref. No.	Former			New		
	C153		1-136-437-11	FILM	220PF	5%	630V
18	C253		1-136-437-11	FILM	220PF	5%	630V
19	CT301	1-141-225-00 CAP, TUNING, TRIMAR					
01	RV104		1-241-767-21	RES, AD	J, CERMET	100K	
21	RV204		1-241-767-21	RES, AD	J, CERMET	100K	

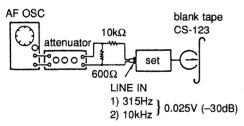
ELECTRICAL ADJUSTMENTS (Service manual page 5)

RECORD BIAS ADJUSTMENT DECK B

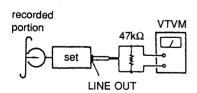
Setting: TAPE SELECT: TYPE-I (DECK-B)

Procedure:

1. Mode: record



2. Mode: playback



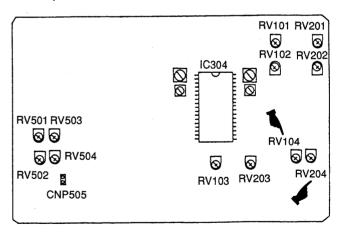
Playback the tape recorded in step 1. If the specification is not satisfied, adjust RV104 (L-CH), RV204 (R-CH) and repeat steps 1 and 2.

Measurement limit :

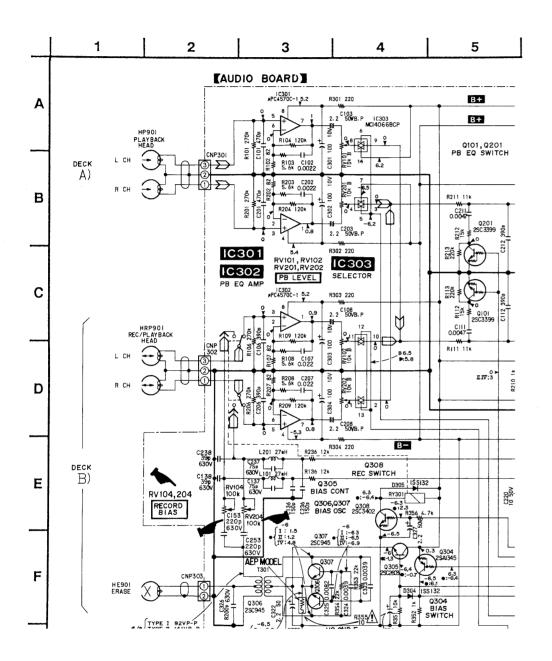
The LINE OUT level of 10kHz signal relative to that of 315Hz: -0.5dB to 0.5dB.

Adjustment Location: Audio Board

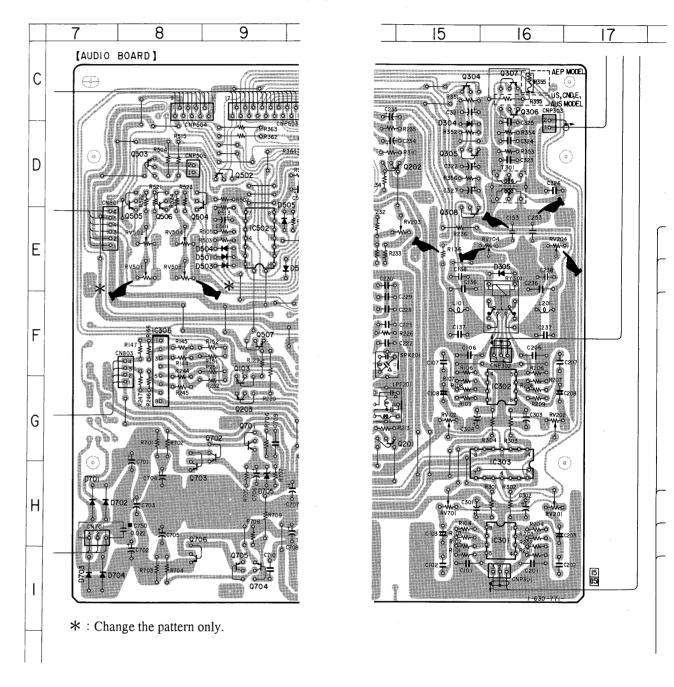
- Component side -



SCHEMATIC DIAGRAM (Service manual page 9)



PRINTED WIRING BOARDS (Service manual page7, 8)



BLOCK DIAGRAM

